

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

Claims 1 - 3 (canceled)

4. (currently amended) A servo pattern recording method for a magnetic disk apparatus, having a magnetic disk for recording information thereon; a head having a write element for use of recording information onto said magnetic disk and a read element for reproducing information from said magnetic disk; and an actuator for moving said head to a desired radial position on said magnetic disk, comprising the following steps of:

recording a servo pattern for positioning of said head on a recording surface of said magnetic disk;

recording marker patterns for detecting passage time of said head, disposing in a front and a rear of said ~~a~~ burst pattern for detecting a radial position of said head, respectively, on a track in a circumferential direction, on said servo pattern recorded on the recording surface of said magnetic disk; and

conducting a self servo write operation by said magnetic disk apparatus with using said servo pattern;

wherein a distance is measured, ~~between the servo patterns neighboring to each other by reproducing two (2) of said servo patterns neighboring to each other in the circumferential direction,~~ between two neighboring servo patterns which are recorded on the recording surface of said magnetic disk, and wherein a time period

~~basis of this distance measured is adjusted a timing of writing when recording a new~~
servo pattern is adjusted based on the measured distance, when conducting said
self servo write operation.

5. (previously presented) A servo pattern recording method for a magnetic disk apparatus, according to claim 4, wherein the marker pattern of said servo pattern written on the recording surface of said magnetic disk is recorded by shifting it with respect to the marker pattern of said servo pattern, which is written neighboring thereto in the circumferential direction of said magnetic disk, by a half of width thereof, on the position in a radial direction thereof, when conducting said self-servo write operation.

Claim 6 (canceled)